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Ser EICO/dmy
18 Sep 01

From: Commander, Naval Facilities Engineering Command

Subj: ITG 01-03, INTERIM TECHNICAL GUIDANCE (ITG) "NAVY BACHELOR HOUSING DESIGN"

Ref: (a) CNO ltr 4000 Ser N463/1U596286 of 16 Aug 01
(b) MIL-HDBK-1036A of 6 Aug 97

1. Purpose. The purpose of this ITG is to provide facility engineers, planners and designers guidance for implementing the new "Expanded 1+1" Standard in the designing and renovating processes of Navy BEQs, as required by reference (a).

2. Background. Navy Unaccompanied Enlisted Personnel Housing was modified by reference (a), which set a new standard for Navy Permanent Party Bachelor Housing designed or renovated after 21 August 2001. Reference (a) modifies the "1+1" Standard module only for Navy Permanent Party Bachelor Housing. All other standards remain unchanged.

3. Discussion. The "Expanded 1+1" Standard increases the maximum module size to 14.4 m² (155 ft²) per bedroom from the "1+1" Standard module of 11 m² (118 ft²) per bedroom. However, the Building Gross Area per module remains 66 m² (710.4 ft²). Therefore, common spaces must be reduced in size to accommodate the enlarged bedroom area.

4. Criteria.

a. Design and construction standards for BQ Housing design or renovation are as follows:

- 1) Permanent Party: "Expanded 1+1" Standard with reduced common areas (per reference (a))
- 2) Rotationals in Homeport: "Expanded 1+1" Standard with reduced common areas (per reference (a))
- 3) Rotationals Deployed: 2+0 Standard (per reference (b))
- 4) Uninhabitable Ships: 2+0 Standard (per reference (b))
- 5) Transient: 2+0 Standard (per reference (b))
- 6) "A" School: 2+2 Standard (per reference (b))
- 7) Recruits: Open-Bay (per reference (b))

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- b. Required common spaces are very limited and are specifically identified in Table 1 below.

Table 1 - Required Common Spaces

	3 stories or less	More than 3 Stories
Building Gross Area per Module	66 m ² (710.4 ft ²)	70 m ² (753.5 ft ²)
Module Size (per approved layout)	52.7 m ² (75.3 ft ²)	52.7 m ² (75.3 ft ²)
Shared Area / Circulation / MEC	13.3 m ² (143.2 ft ²)	17.3 m ² (186.2 ft ²)

c. The module total allowance of 52.7 m² (75.3 ft²) refers to the sleeping/living rooms, closets, bathroom, kitchenette, inside module circulation, and associated mechanical (chase) space. The approved module design in reference (a) is notional and may vary slightly for different materials, construction types, or ATFP requirements that affect wall thickness. Space for module mechanical, electrical, and communication requirements is included inside the module. However, circulation inside the common spaces, stairwells, elevators, and MEC space outside the module is not included.

d. Some spaces previously provided in the common areas are no longer required because they are mitigated by the new modified layout. For example, laundries are not needed because they are now accommodated in each module.

5. Action.

a. Planning - Provide the required common spaces for all “Expanded 1+1” Standard plans as shown below. In design, the NAVFAC BQ Office has the flexibility to modify common space designations and/or functions to meet specific mission needs or local conditions.

After required spaces listed below have been accommodated, some additional spaces may be included in the design, only if area is available within the maximum building limit of 66 m² (710.4 ft²) per module. These spaces must be identified as added required space and justified on the DD Form 1391.

The required common spaces are:

- 1) 1.52 m (5 ft) wide interior corridors
- 2) Criteria required stairways
- 3) Appropriately sized Mail Room or Mailbox area for each resident
- 4) Building Mechanical and Electrical room
- 5) Building Tele-Communications room

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6) Elevators

- a) For buildings 3 Stories or less, provide necessary code support infrastructure for installation of a portable "lift" for the movement of furniture.
- b) For buildings 4 stories or higher, provide freight/passenger elevators for furniture movement using the additional 4 m² (43 ft²) allowance for high-rise construction.

b. Design and Construction - Use the "Expanded 1+1" Standard for all Permanent Party design, construction and renovation.

A module is sized for one E5-E9 or two E1-E4 personnel. On all construction projects, identify the maximum occupancy, or the number of E1-E4 personnel that can occupy the quarters and the intended use capacity. The intended use capacity cannot exceed the number from the R-19/FSR except for rounding purposes.

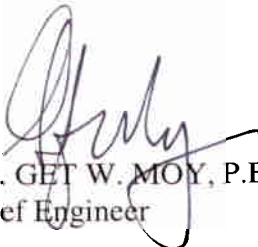
c. Criteria - NAVFAC Engineering Innovation and Criteria Office (EICO) will update Military Handbook (MIL-HDBK) 1036A, dated 6 August 1997.

6. Coordination. This ITG has been coordinated with NAVFACENGCOM, CHENG, Housing, and MCON Programming.

7. Points of Contact.

a. For clarification or additional technical information related to this subject, please contact Mr. David M. Young, R.A., at the NAVFAC EICO. Mr. Young can be reached at 757-322-4212, or youngdm@efdlant.navy.mil.

b. For clarification or additional information related to housing, please contact Mr. Dave Dutton at NAVFACHQ. Mr. Dutton can be reached at 202-685-9355, or DuttonRD@navfac.navy.mil.


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Errata: On page 2, Table 1 and paragraph c.; the correct metric conversion is 52.7m² = 567.3 ft².

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